

A photograph of two deer in a field of tall, golden-brown grass. The deer on the left is facing left, and the deer on the right is facing right. Both deer have dark brown fur with a white patch on their hindquarters and small, developing antlers.

October 2012 South Dakota Health and Disease summary

South Dakota Department of Health

<http://doh.sd.gov>

Photo: Dakota Graphics: www.dakotagraph.com



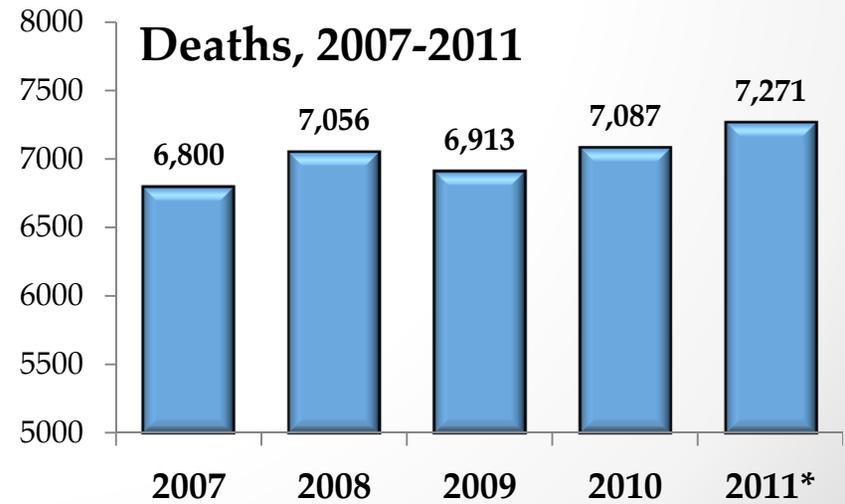
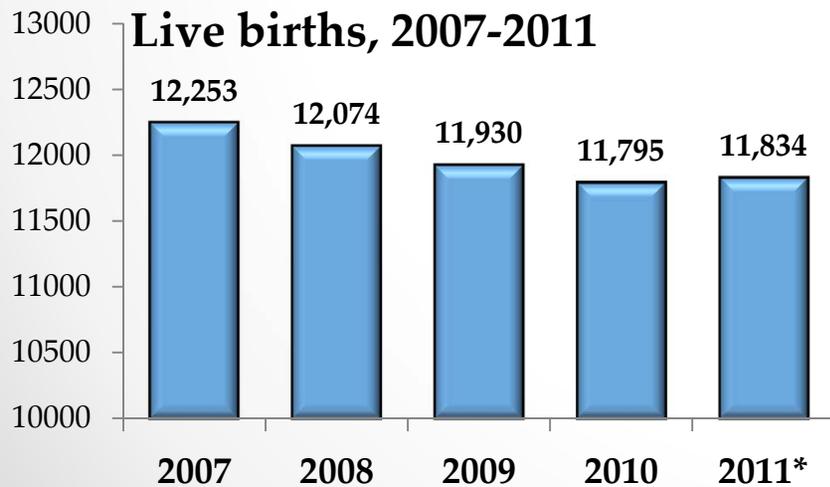
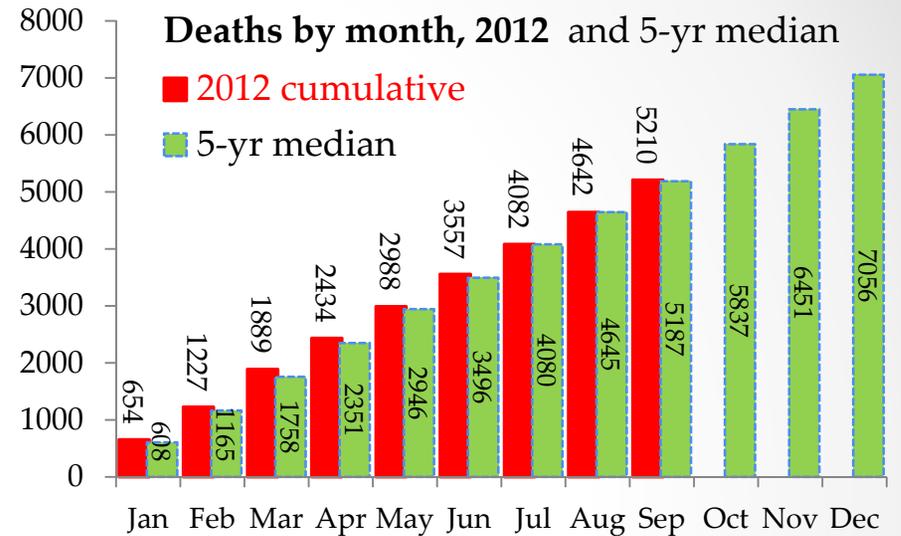
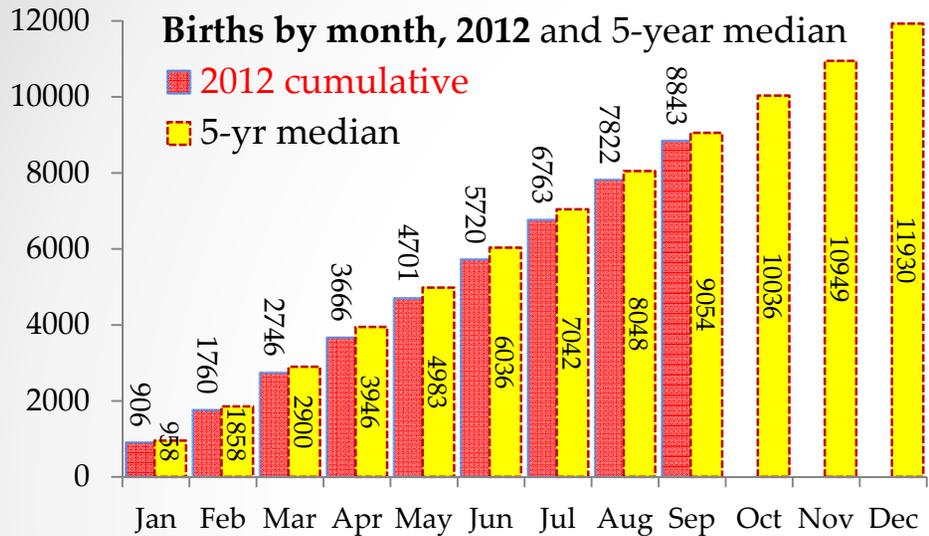
1 Jan – 31 Oct 2012, Provisional Data

South Dakota infectious disease summary 2012

Disease/Agent	Cases year-to-date	Rate (cases per 100,000 population)	5-yr median cases (2006-2011)	Percent change
Campylobacter	249	30.6	271	-8%
Chlamydia	3,309	406.4	2,533	+31%
Cryptosporidiosis	100	12.3	121	-17%
<i>E. coli</i> , shiga toxin-producing	39	4.8	45	-13%
Giardiasis	115	14.1	97	+19%
Gonorrhea	558	68.5	299	+87%
HIV AIDS	24	2.9	20	+20%
MRSA, invasive	61	7.5	66	-8%
Pertussis	60	7.4	43	+40%
Rabies, animal	54	na	29	+86%
Salmonella	132	16.2	145	-9%
Syphilis, early	17	2.1	2	+750%
Tuberculosis	16	2.0	14	+14%
West Nile	202	24.8	21	+862%

1 Jan – 31 August 2012, Provisional Data

Births and deaths, South Dakota, 2012



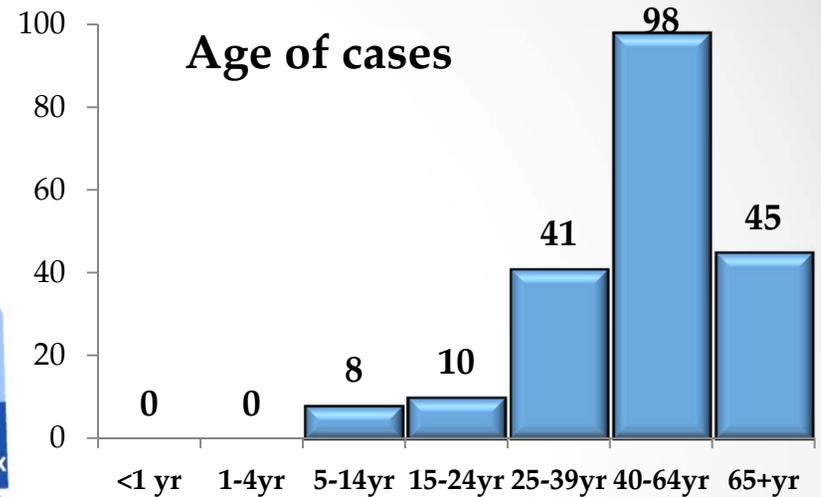
*2011 numbers provisional

1 Jan – 31 Oct 2012, Provisional Data

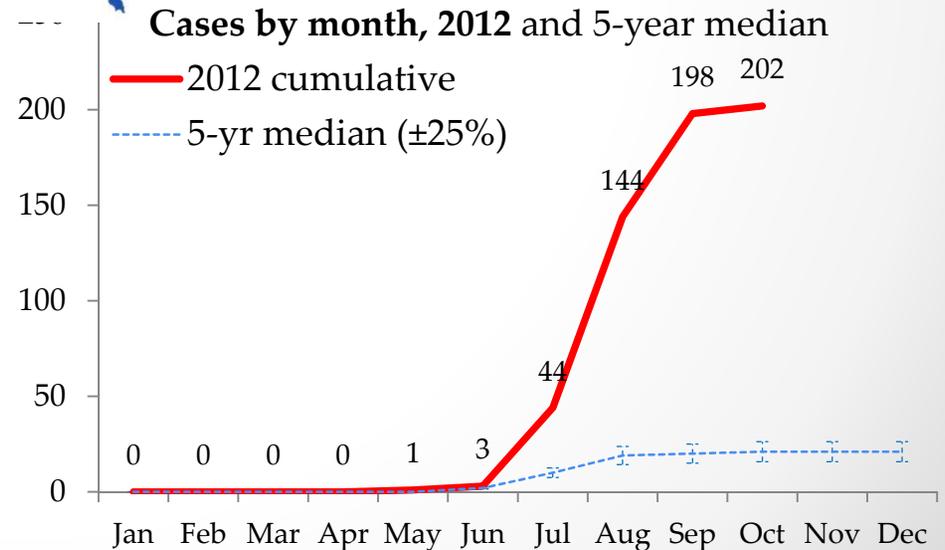
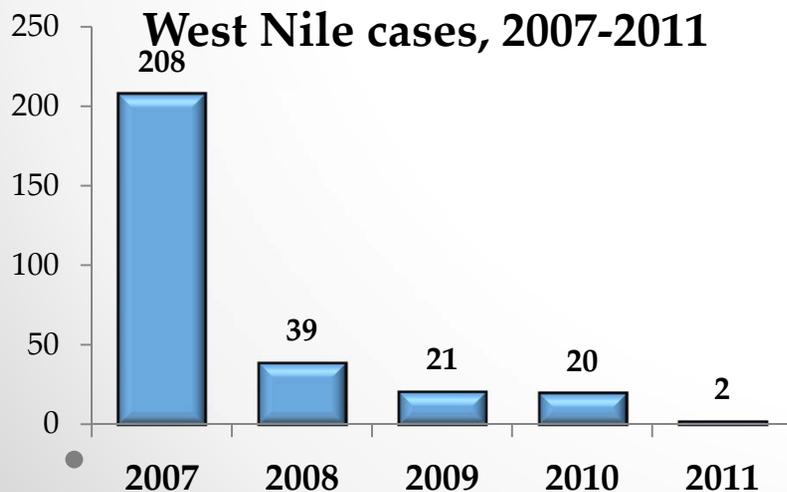
West Nile virus (human cases) in South Dakota

Zip Region	Cases	Rate*
570xx	42	24.3
571xx	8	5.0
572xx	36	49.9
573xx	40	49.1
574xx	63	105.7
575xx	8	15.0
576xx	1	4.8
577xx	4	2.1
Total	202	24.8

Human West Nile cases are +862% increased over the baseline 5-year median



*Rate: cases per 100,000 population



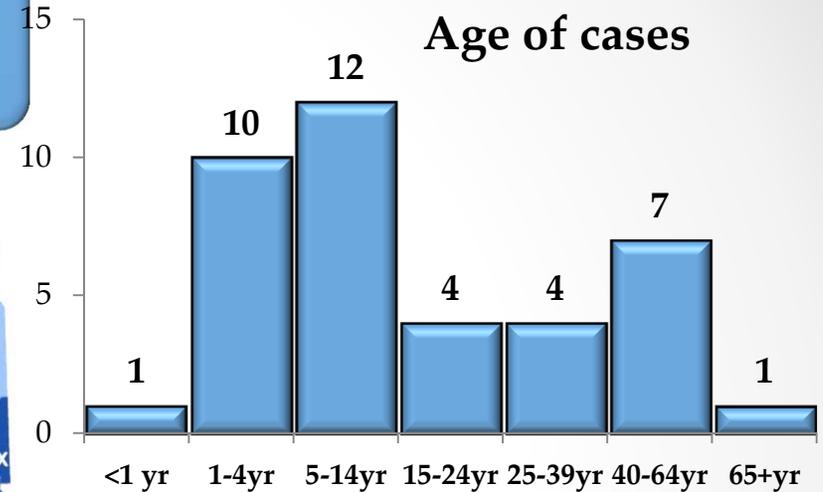
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

1 Jan – 31 Oct 2012, Provisional Data

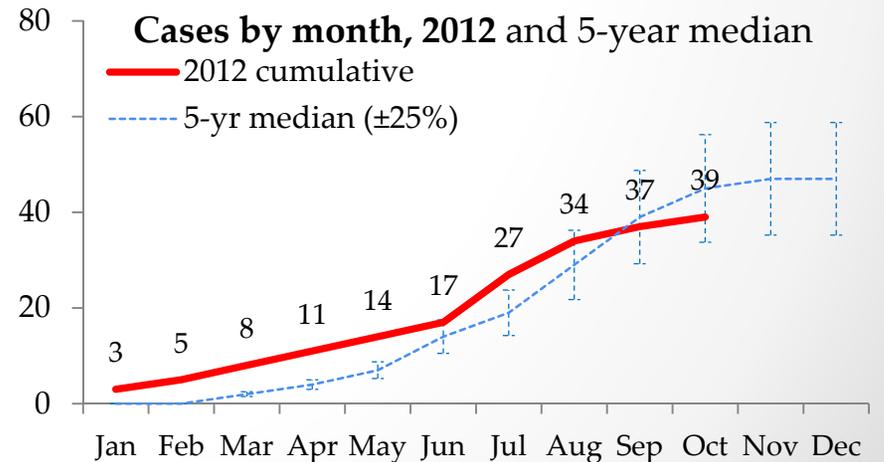
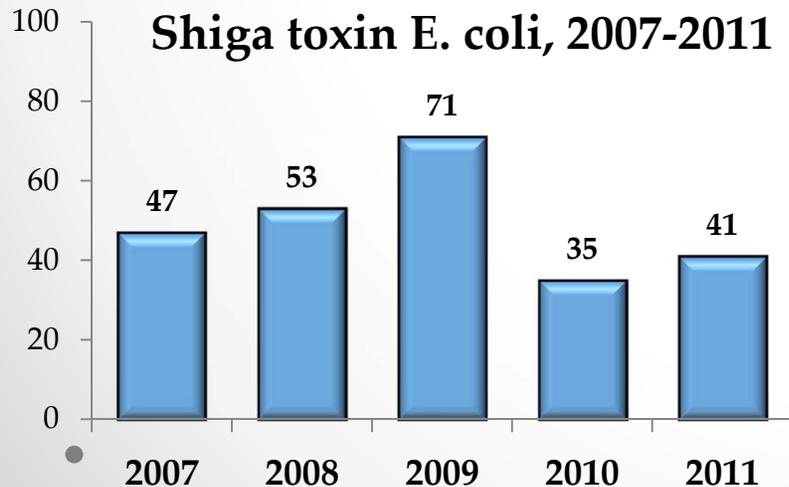
Shiga toxin-producing *E. coli* in South Dakota

Zip Region	Cases	Rate*
570xx	14	8.1
571xx	10	6.2
572xx	0	0.0
573xx	3	3.7
574xx	5	8.4
575xx	2	3.8
576xx	1	4.8
577xx	4	2.1
Total	39	4.8

Shiga toxin-producing *E. coli* is -13% decreases below the baseline 5-year median



*Rate: cases per 100,000 population



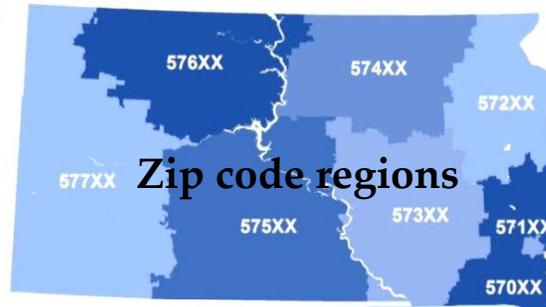
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

1 Jan – 31 Oct 2012, Provisional Data

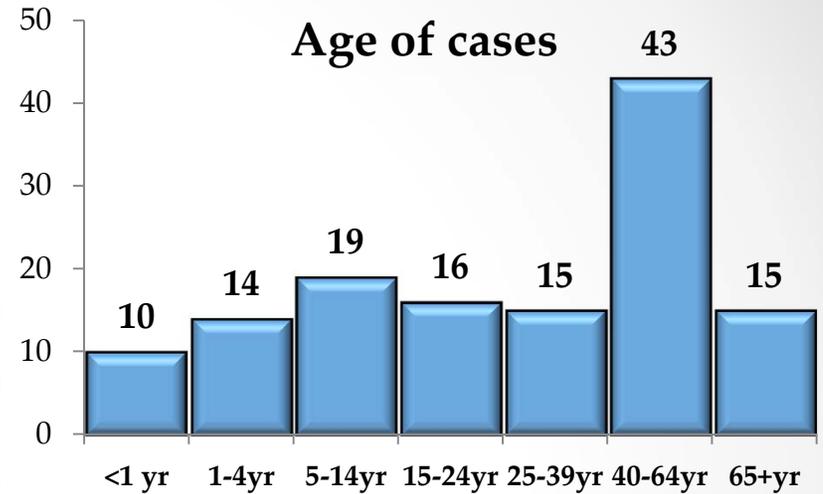
Salmonella in South Dakota

Zip Region	Cases	Rate*
570xx	31	17.9
571xx	28	17.4
572xx	10	13.8
573xx	22	27.0
574xx	11	18.5
575xx	4	7.5
576xx	4	19.1
577xx	22	11.5
Total	132	16.2

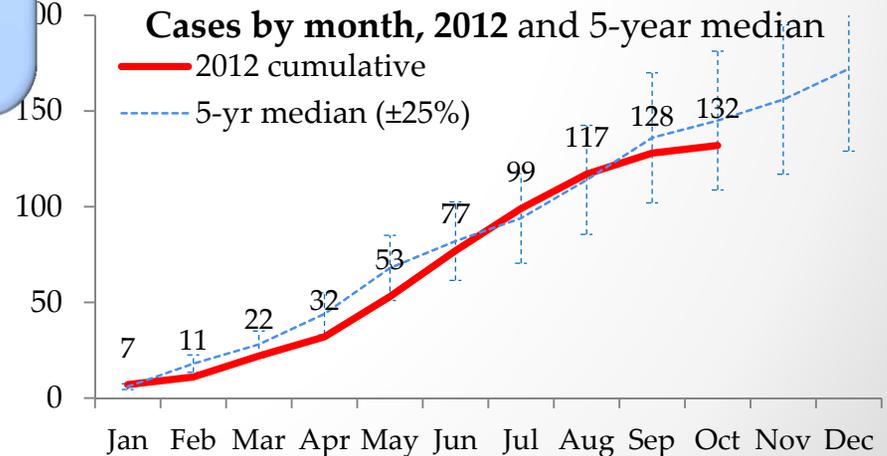
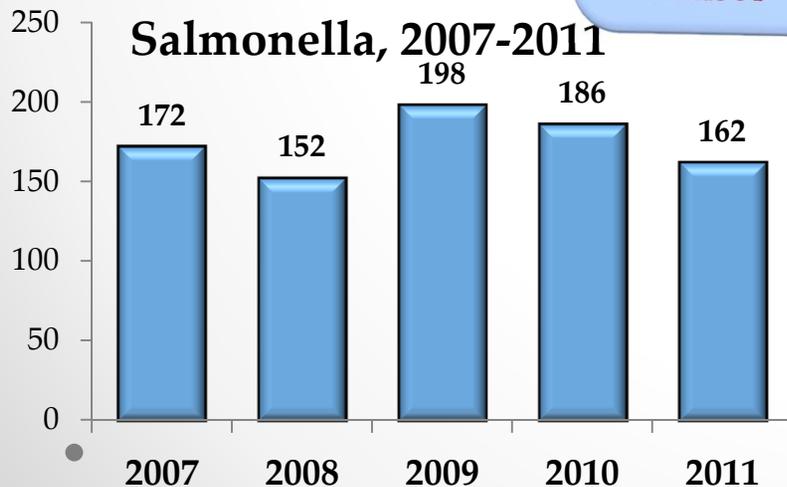
Salmonella is currently
-9% decreased below the
baseline 5-year median



Salmonella serotypes
 S. Enteritidis 18
 S. Infantis 9
 S. Montevideo 4
 S. Newport 6
 S. Typhimurium 44
 All others 51



*Rate: cases per 100,000 population



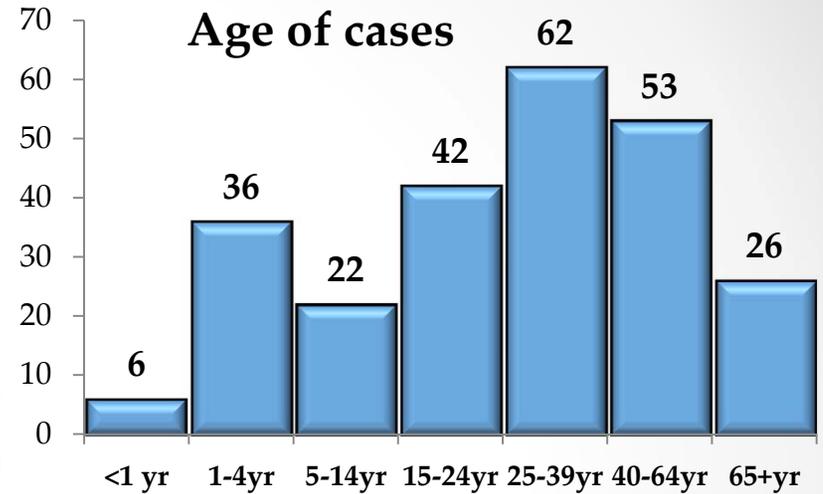
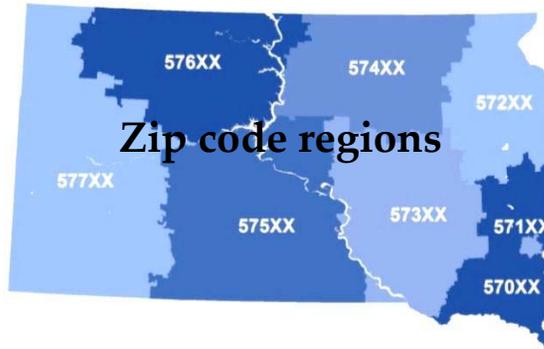
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

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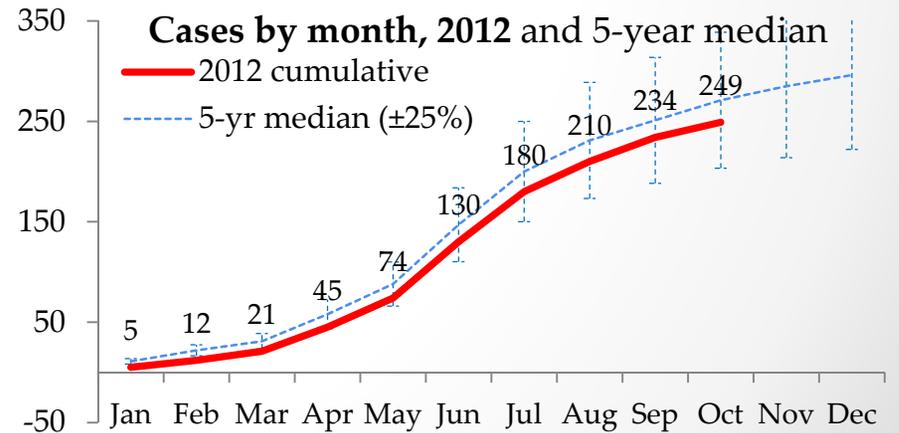
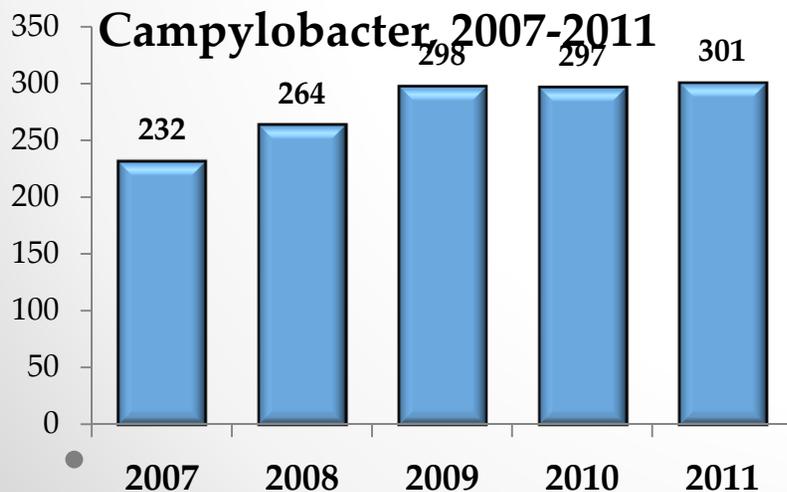
Campylobacteriosis in South Dakota

Zip Region	Cases	Rate*
570xx	66	38.1
571xx	37	23.0
572xx	23	31.8
573xx	53	65.1
574xx	28	47.0
575xx	16	30.0
576xx	11	52.6
577xx	13	6.8
Total	247	30.3

Campylobacteriosis is currently -8% decreased below the baseline 5-year median



*Rate: cases per 100,000 population



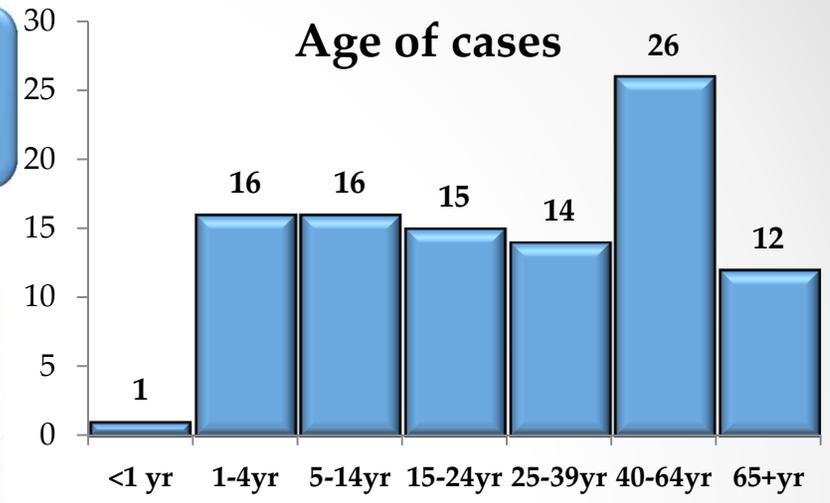
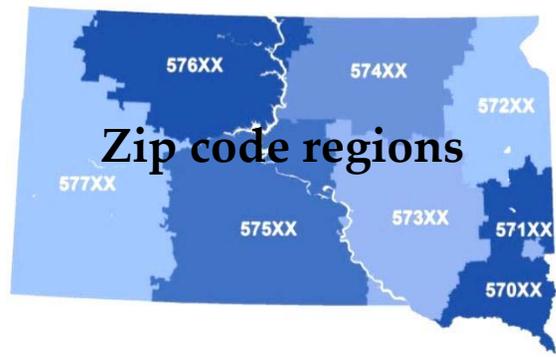
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

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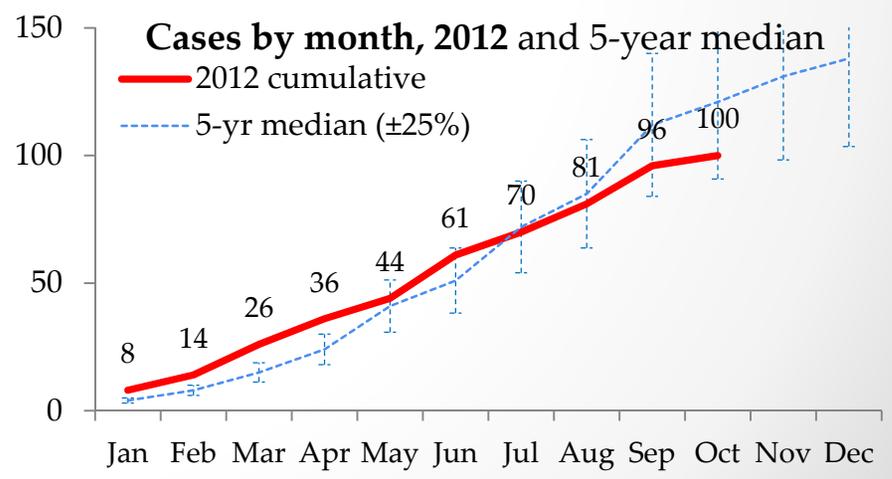
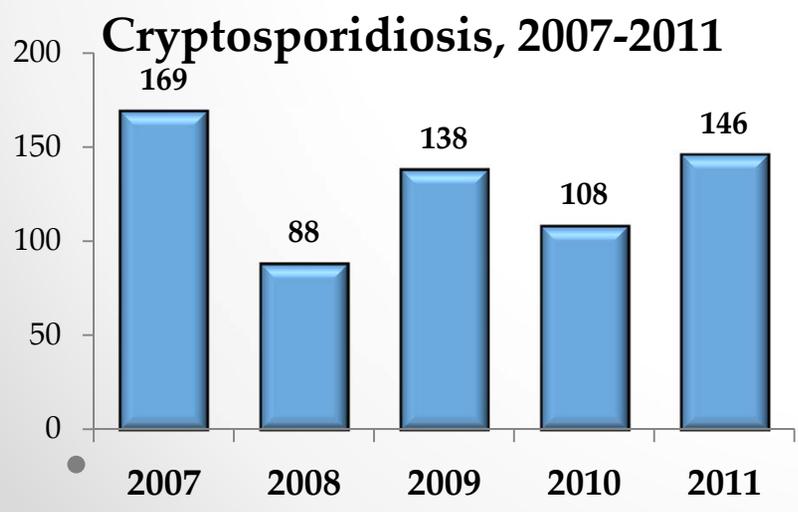
Cryptosporidiosis in South Dakota

Zip Region	Cases	Rate*
570xx	31	17.9
571xx	10	6.2
572xx	20	27.7
573xx	11	13.5
574xx	19	31.9
575xx	1	1.9
576xx	5	23.9
577xx	3	1.6
Total	100	12.3

Cryptosporidiosis is currently -17% decreased below the baseline 5-year median



*Rate: cases per 100,000 population



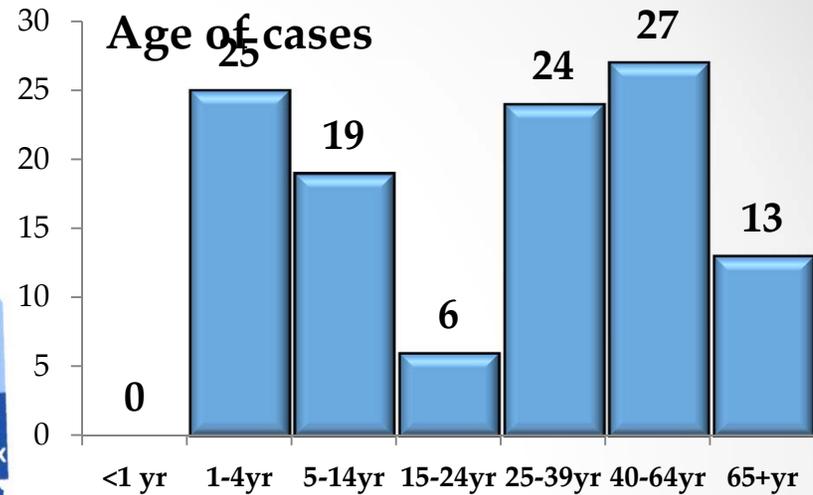
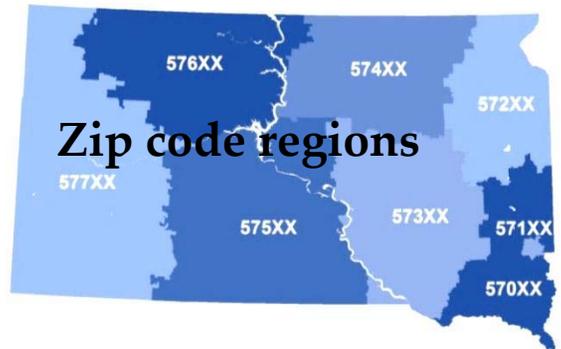
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

1 Jan – 31 Oct 2012, Provisional Data

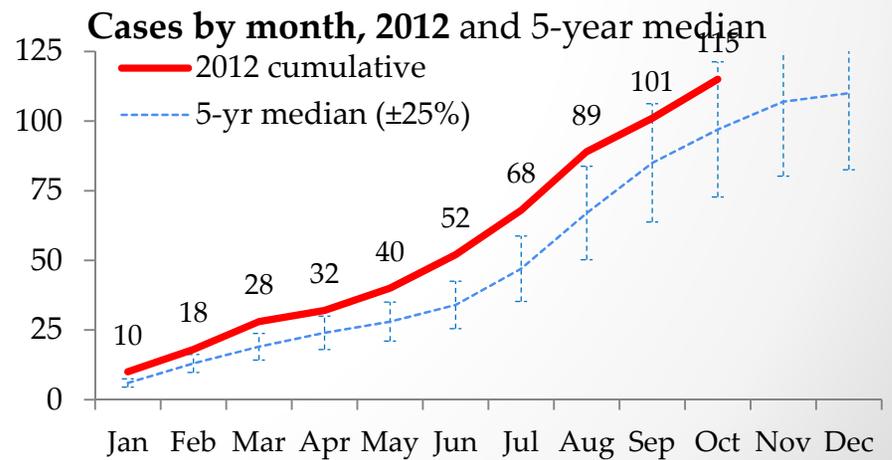
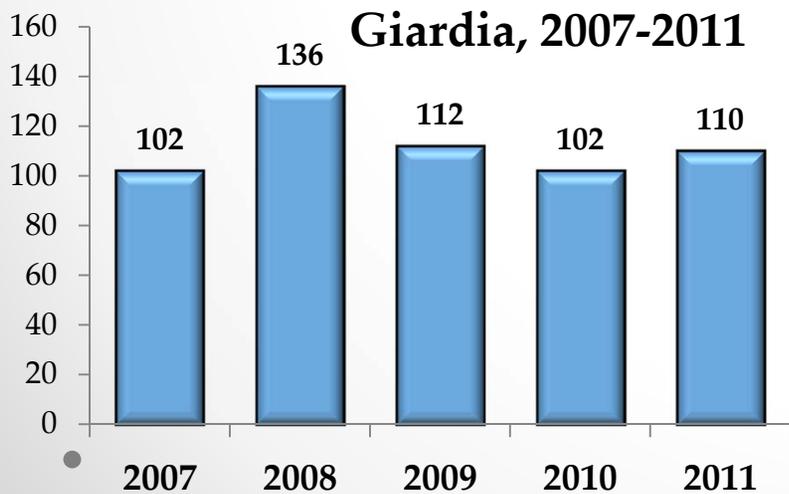
Giardiasis in South Dakota

Zip Region	Cases	Rate*
570xx	26	15.0
571xx	30	18.6
572xx	15	20.8
573xx	16	19.7
574xx	4	6.7
575xx	4	7.5
576xx	1	4.8
577xx	18	9.4
Total	114	14.0

Giardiasis currently +19% increased over the baseline 5-year median



*Rate: cases per 100,000 population



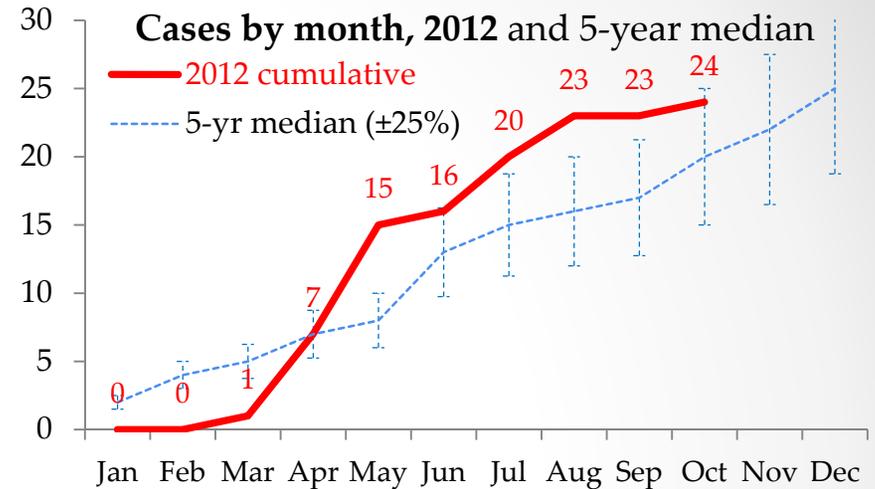
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

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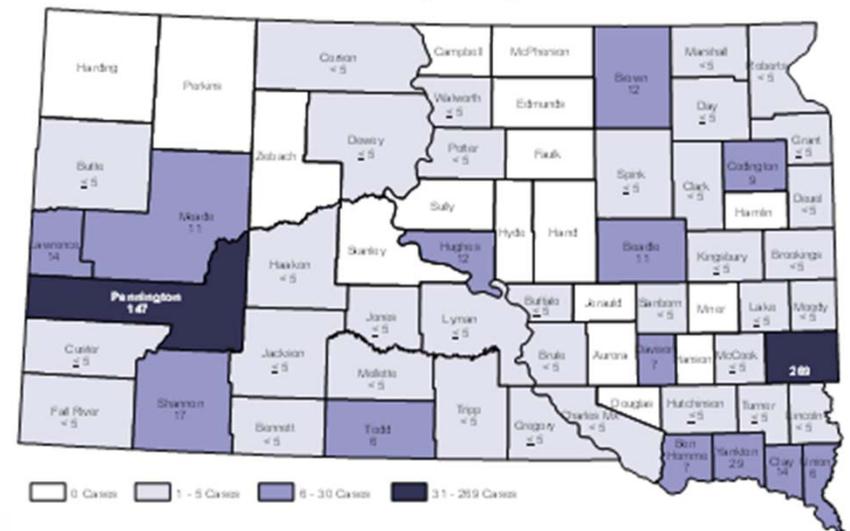
HIV/AIDS in South Dakota

HIV/AIDS is currently +20% increased over the baseline 5-year median

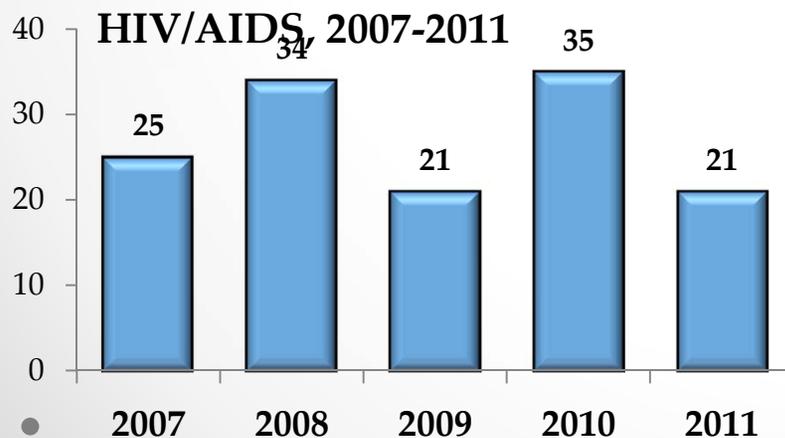
Region	Cases	Rate*
East River	14	2.5
West River	10	4.1
Total	24	2.9



South Dakota Residents Reported Infected with HIV/AIDS: Cumulative Cases by County, 1985 - 2011



HIV surveillance website:
<http://doh.sd.gov/Disease/statistics.aspx>



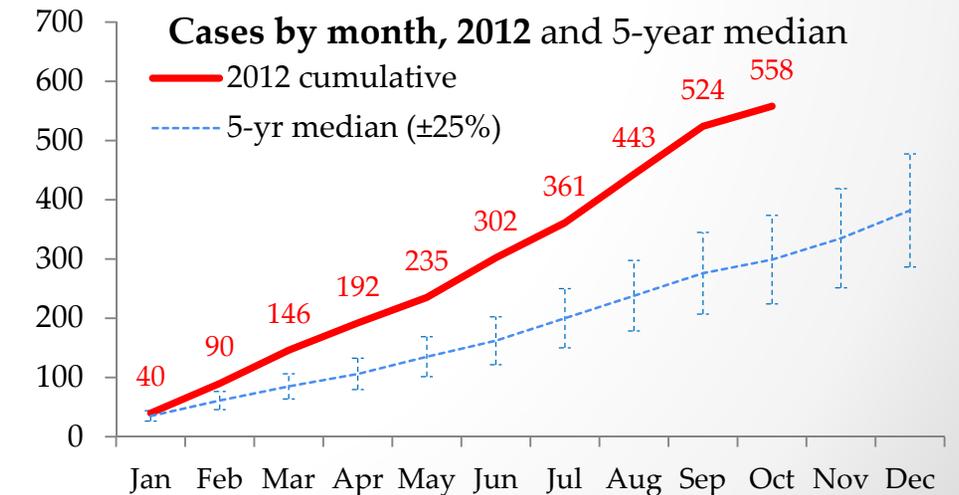
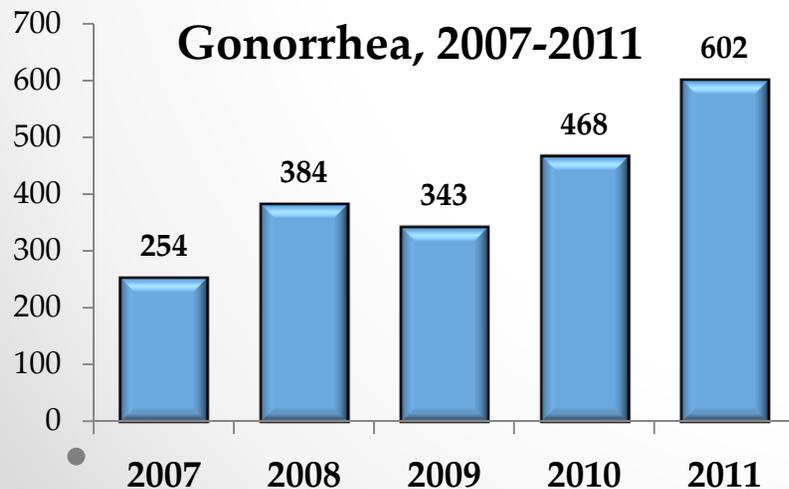
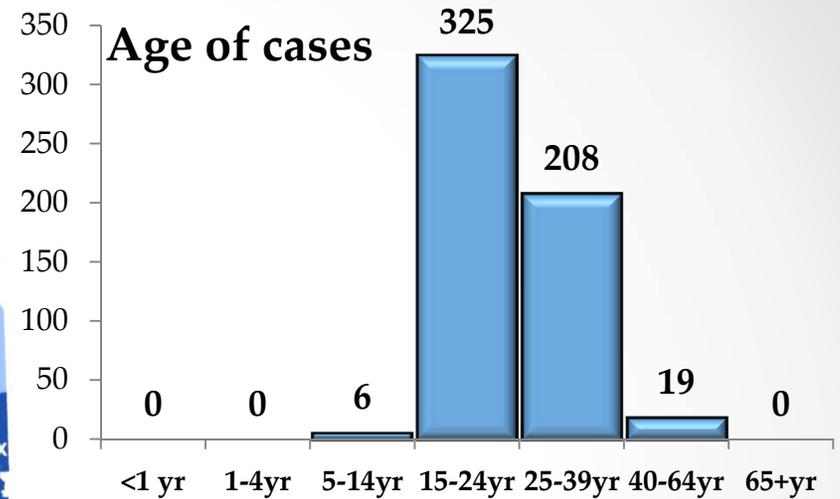
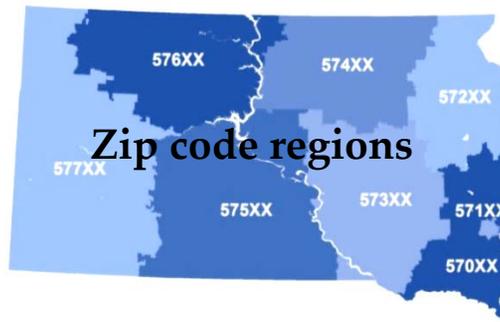
1 Jan – 31 Oct 2012, Provisional Data

Gonorrhea in South Dakota

Zip Region	Cases	Rate*
570xx	19	11.0
571xx	95	59.0
572xx	16	22.2
573xx	27	33.2
574xx	4	6.7
575xx	65	122.1
576xx	64	306.2
577xx	268	139.7
Total	558	68.5

*Rate: cases per 100,000 population

Gonorrhea is currently +87% increased over the baseline 5-year median



Disease fact sheets: <http://doh.sd.gov/diseasefacts>

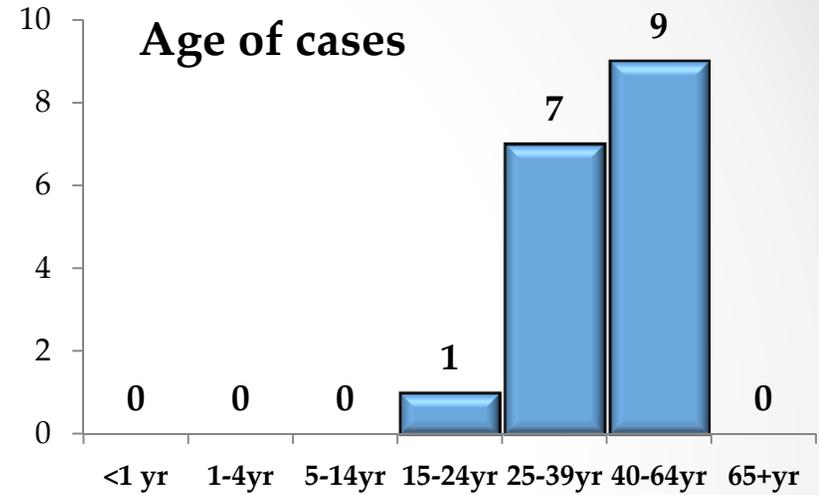
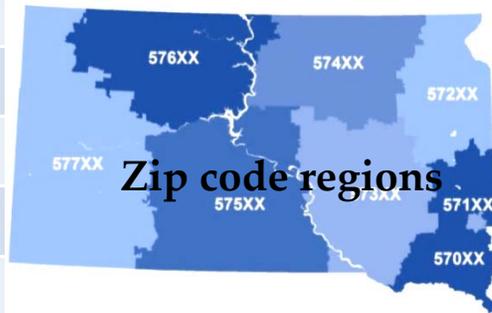
1 Jan – 31 Oct 2012, Provisional Data

Syphilis in South Dakota

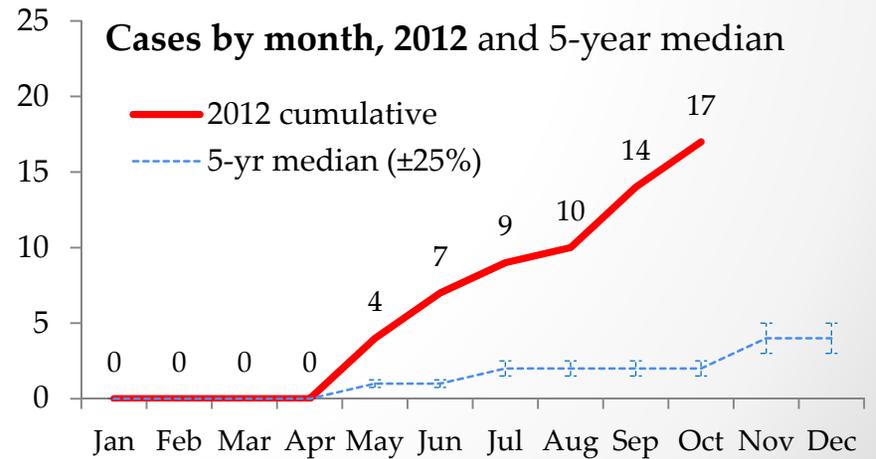
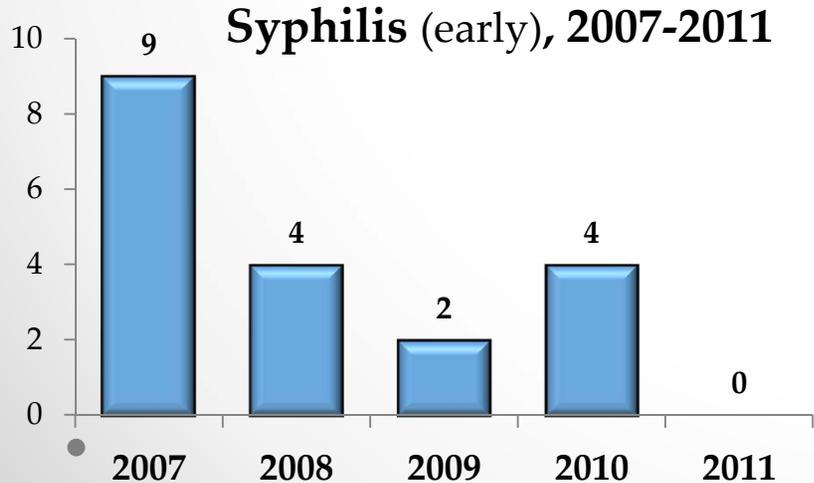
Primary, Secondary and Early Latent Syphilis

Zip Region	Cases	Rate*
570xx	2	1.2
571xx	15	9.3
572xx	0	0.0
573xx	0	0.0
574xx	0	0.0
575xx	0	0.0
576xx	0	0.0
577xx	0	0.0
Total	17	2.1

Early Syphilis is currently +750% increased over the baseline 5-year median



*Rate: cases per 100,000 population

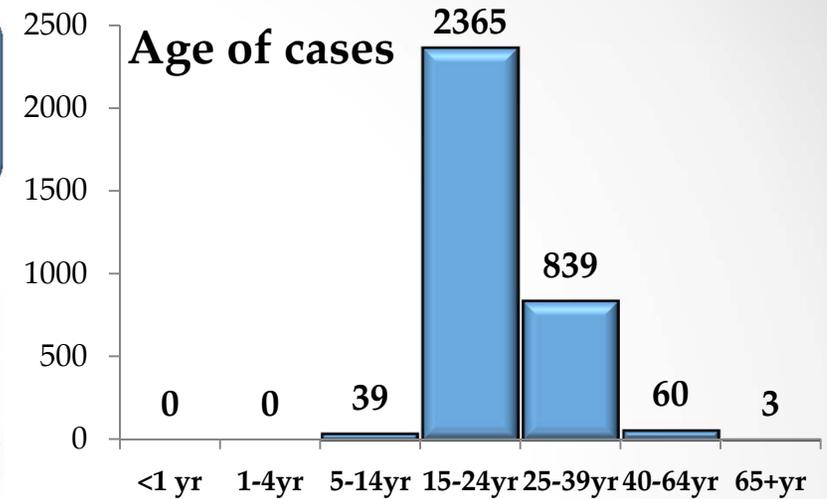
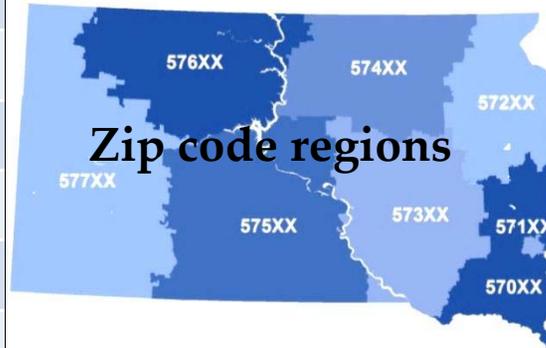


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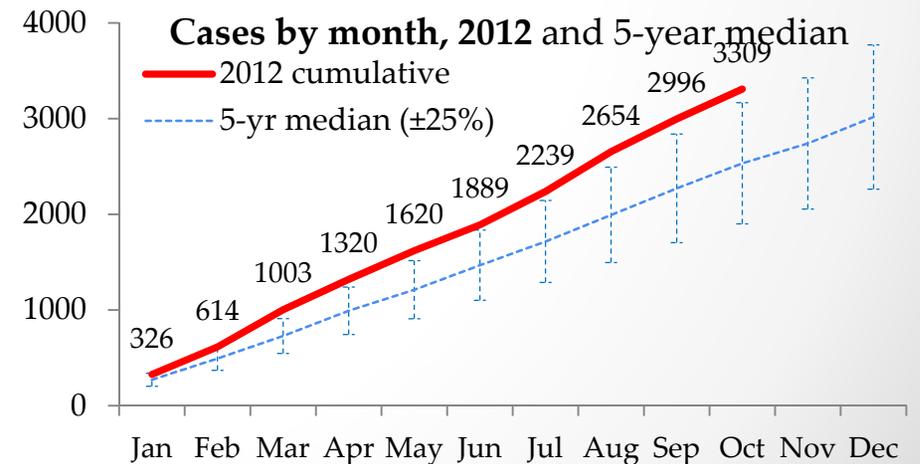
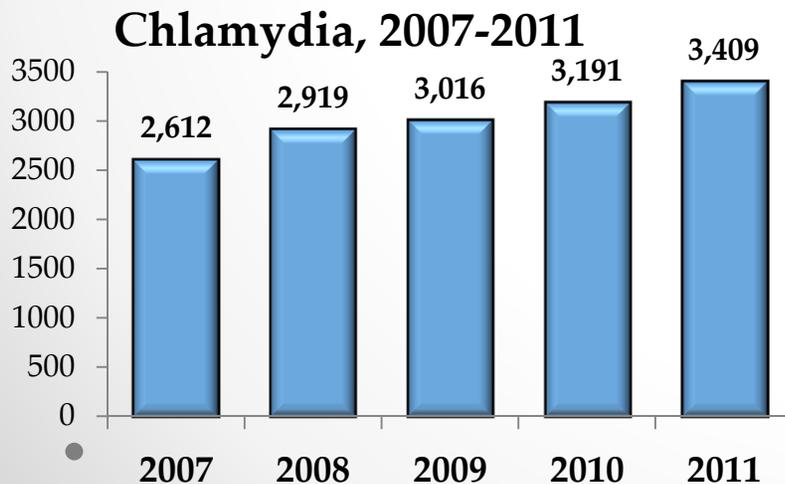
Chlamydia in South Dakota

Zip Region	Cases	Rate*
570xx	366	211
571xx	760	472
572xx	209	289
573xx	256	315
574xx	111	186
575xx	306	575
576xx	202	967
577xx	1098	573
Total	3,308	406

Chlamydia is currently +31% increased over the baseline 5-year median



*Rate: cases per 100,000 population



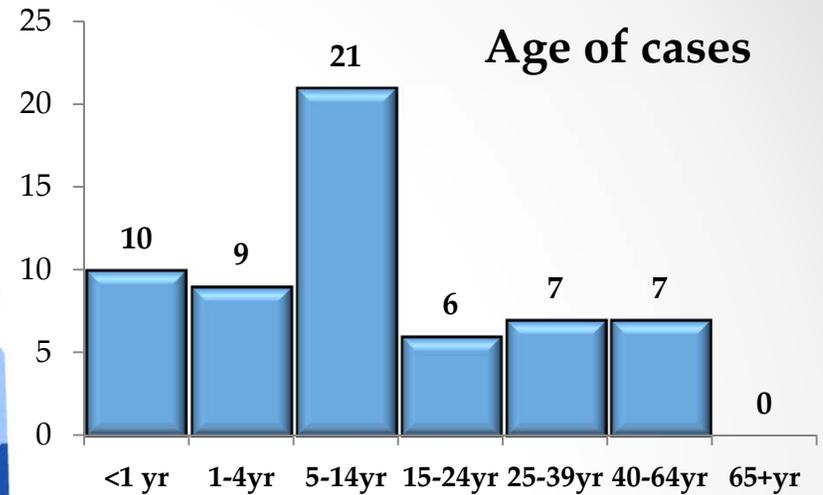
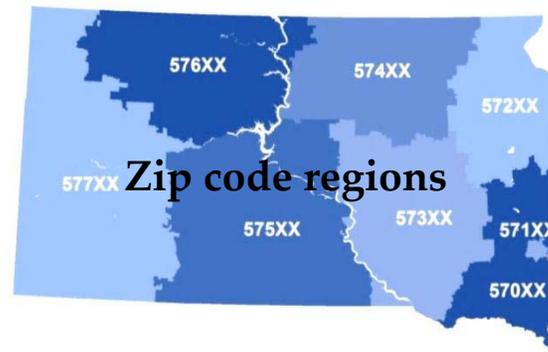
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

1 Jan – 31 Oct 2012, Provisional Data

Pertussis in South Dakota

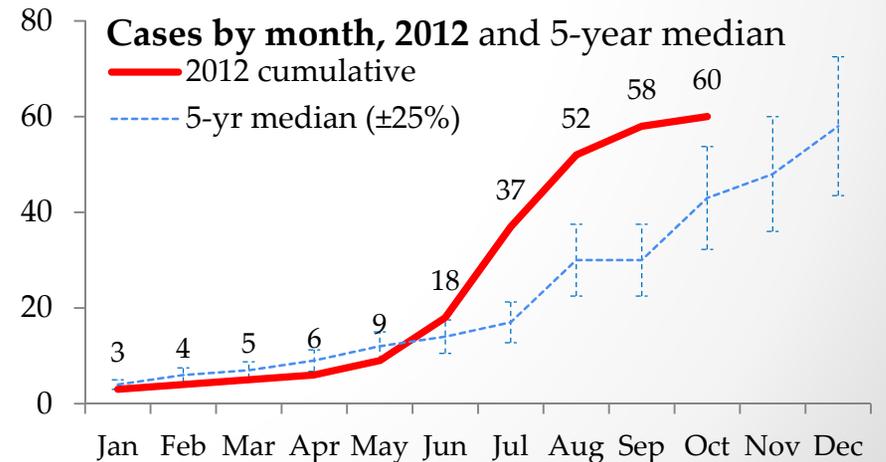
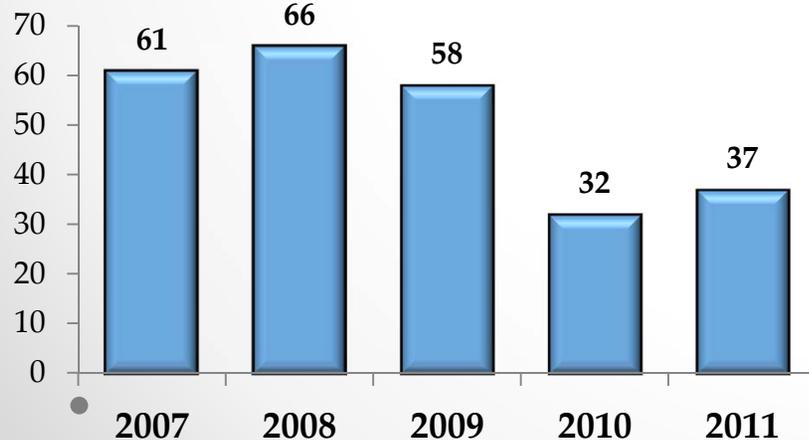
Zip Region	Cases	Rate*
570xx	16	9.2
571xx	7	4.3
572xx	4	5.5
573xx	4	4.9
574xx	0	0.0
575xx	5	9.4
576xx	4	19.1
577xx	20	10.4
Total	60	7.4

Pertussis is currently +40% increased over the baseline 5-year median



*Rate: cases per 100,000 population

Pertussis, 2007-2011



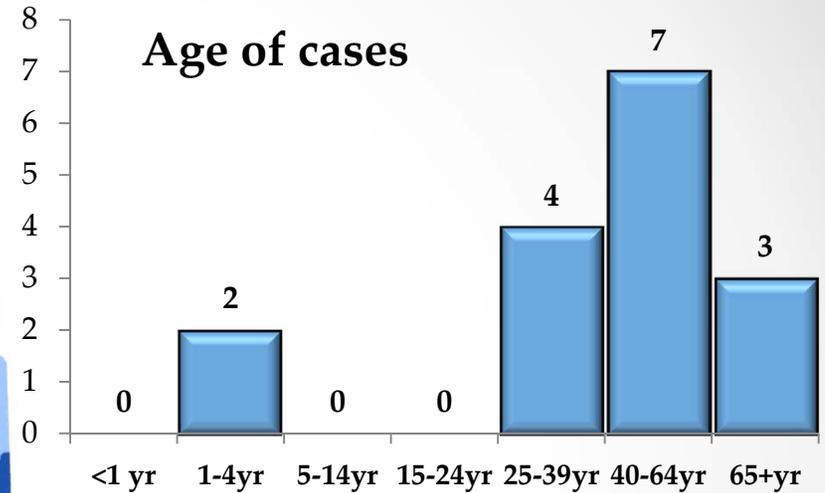
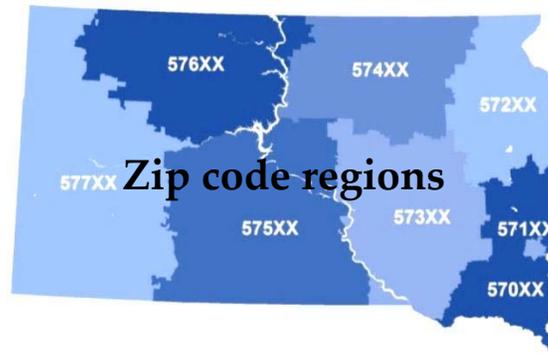
Disease fact sheets: <http://doh.sd.gov/diseasefacts>

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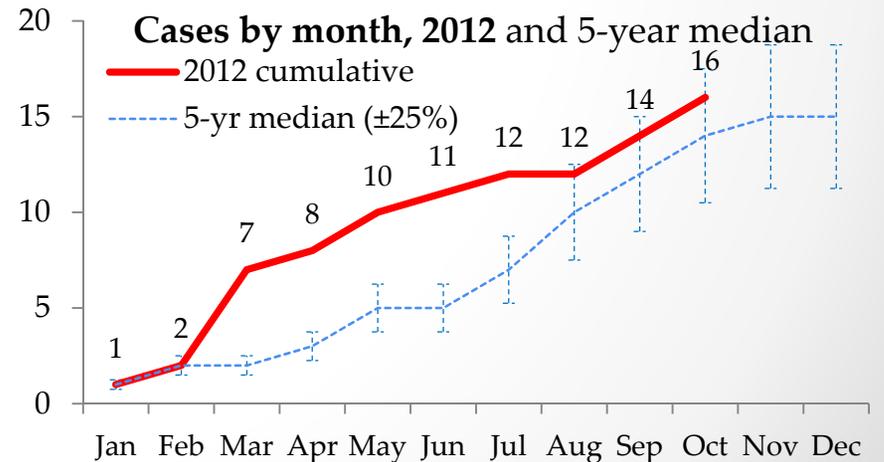
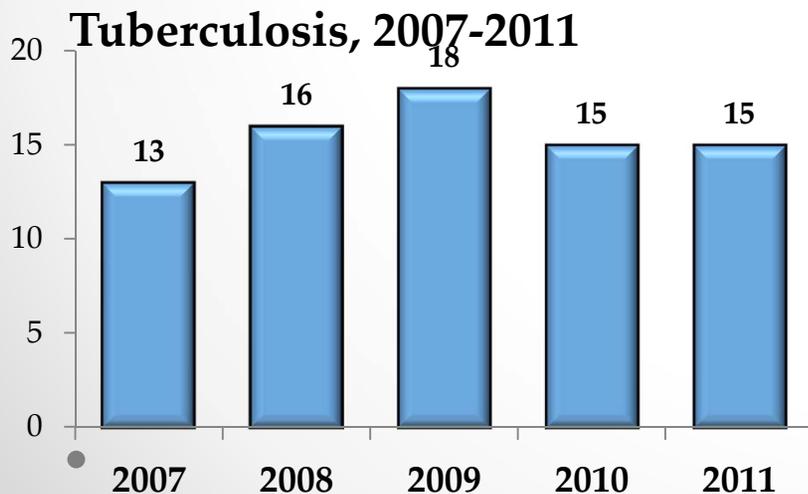
Tuberculosis in South Dakota

Zip Region	Cases	Rate*
570xx	1	0.6
571xx	7	4.3
572xx	0	0.0
573xx	2	2.5
574xx	0	0.0
575xx	3	5.6
576xx	1	4.8
577xx	2	1.0
Total	16	2.0

Tuberculosis is currently +14% increased over the baseline 5-year median



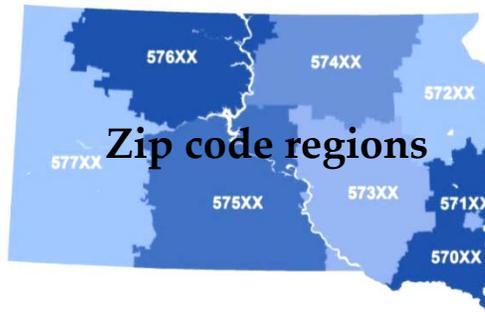
*Rate: cases per 100,000 population



1 Jan – 31 Oct 2012, Provisional Data

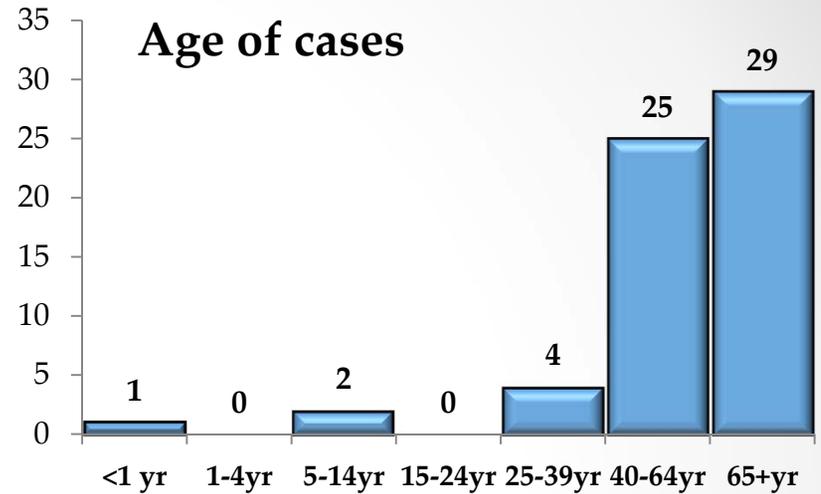
Zip Region	Cases	Rate*
570xx	8	4.6
571xx	14	8.7
572xx	1	1.4
573xx	8	9.8
574xx	1	1.7
575xx	7	13.1
576xx	4	19.1
577xx	18	9.4
Total	61	7.5

MRSA is currently -8% decreased below the baseline 5-year median

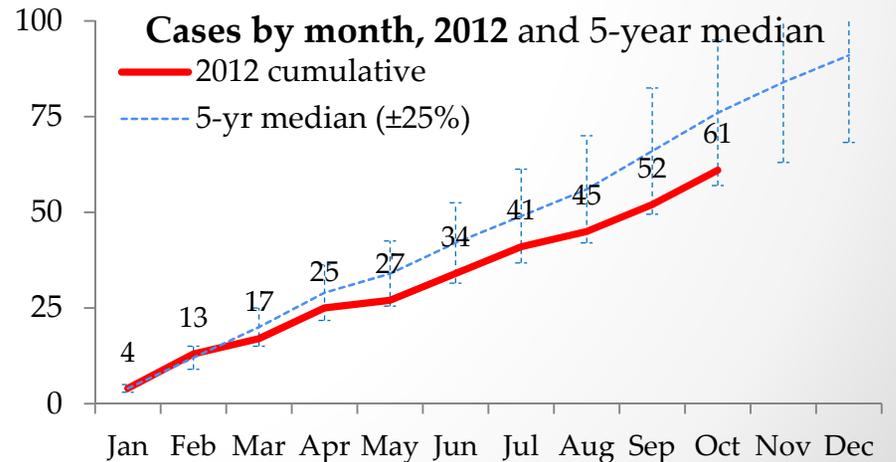
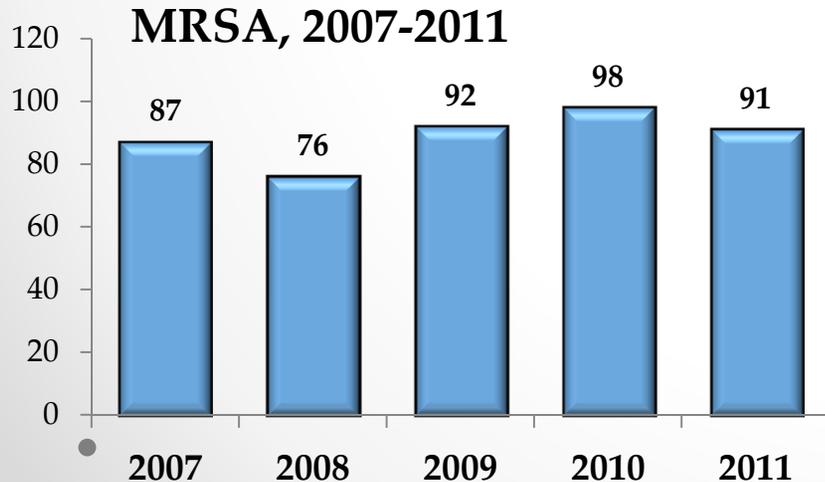


MRSA in South Dakota

Invasive Methicillin-Resistant *Staphylococcus aureus*



*Rate: cases per 100,000 population

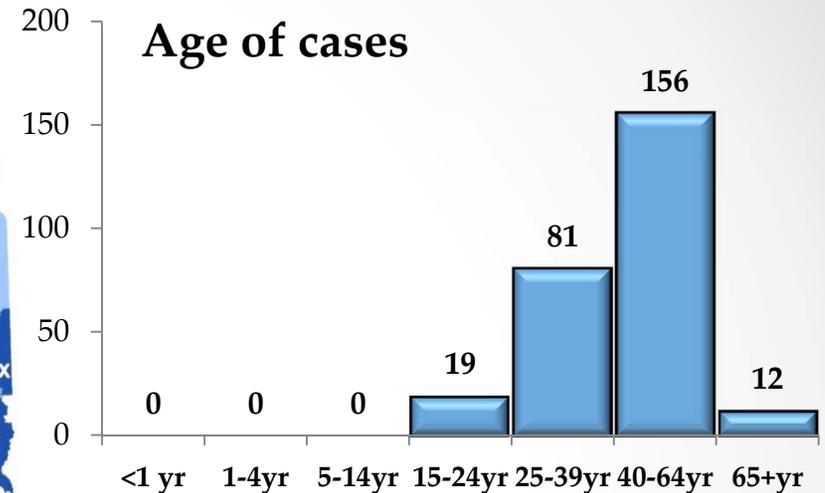
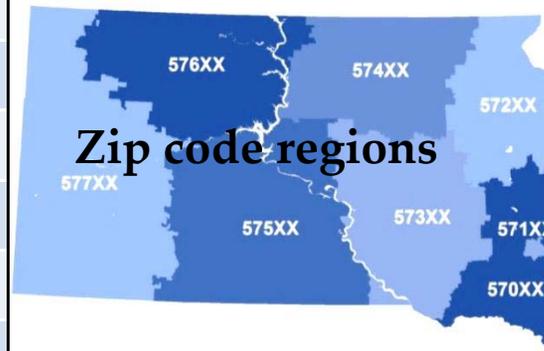


Disease fact sheets: <http://doh.sd.gov/diseasefacts>

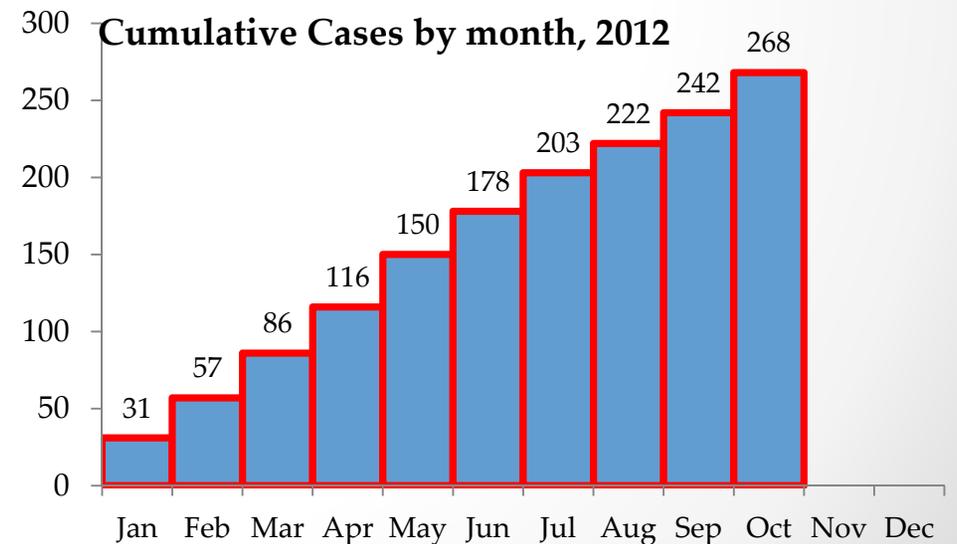
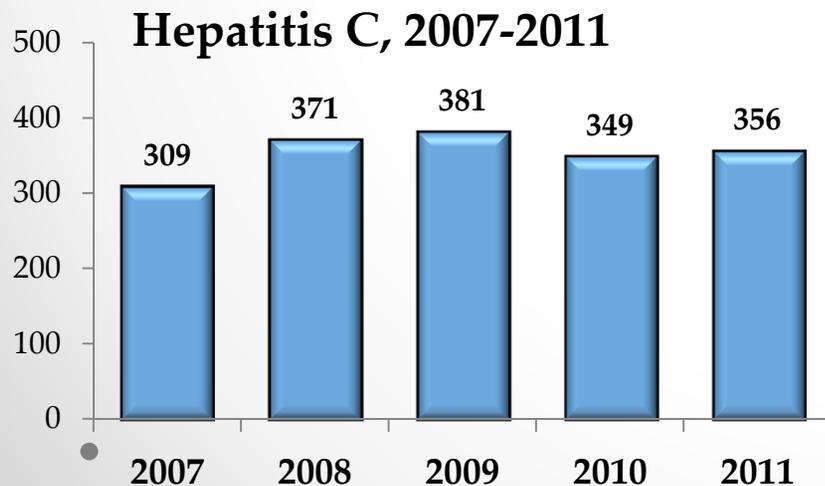
1 Jan – 31 Oct 2012, Provisional Data

Hepatitis C in South Dakota

Zip Region	Cases	Rate*
570xx	48	27.7
571xx	92	57.1
572xx	5	6.9
573xx	17	20.9
574xx	17	28.5
575xx	15	28.2
576xx	9	43.1
577xx	65	33.9
Total	268	32.9



*Rate: cases per 100,000 population



Disease fact sheets: <http://doh.sd.gov/diseasefacts>

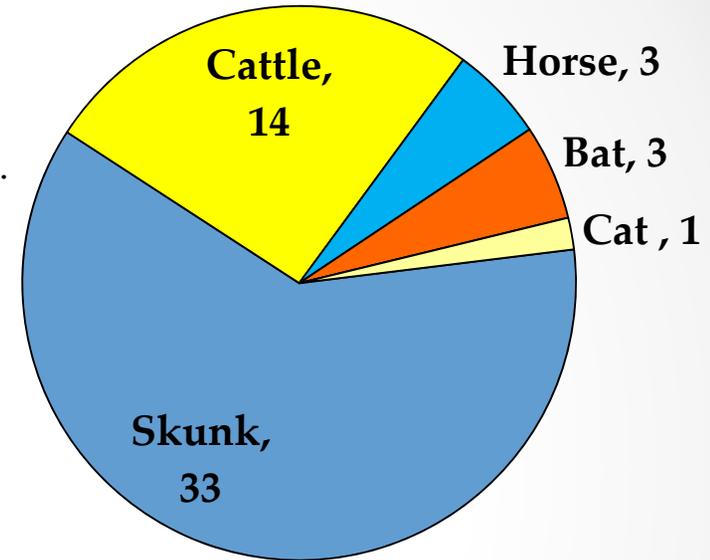
1 Jan – 31 Oct 2012, Provisional Data

Rabies, South Dakota

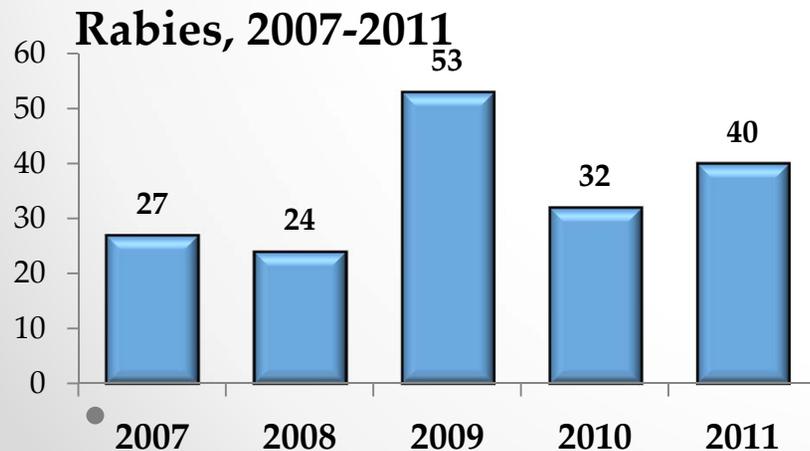
Counties with rabies reports

Bennett: 3 skunk.
 Brookings: 2 skunk, 2 cattle.
 Butte: 1 skunk.
 Charles Mix: 3 skunk.
 Day: 2 cattle.
 Codington: 1 skunk
 Deuel: 1 skunk.
 Dewey: 2 cattle, 1 horse, 2 skunk.
 Grant: 1 skunk
 Fall River: 1 bat
 Haakon: 2 cattle, 1 skunk.
 Harding: 1 cow.
 Hutchinson: 2 cattle, 1 horse.
 Kingsbury: 2 skunk.
 Lake: 1 skunk.
 Lyman: 1 horse.
 McPherson: 1 cow.
 Meade: 1 skunk.
 Mellette: 2 skunk.
 Minnehaha: 1 cow, 1 bat.
 Potter: 1 skunk.
 Roberts: 1 cow, 1 skunk.
 Sanborn: 1 skunk.
 Sully: 1 cat.
 Tripp: 8 skunk.
 Walworth: 1 skunk.
 Yankton: 1 bat.

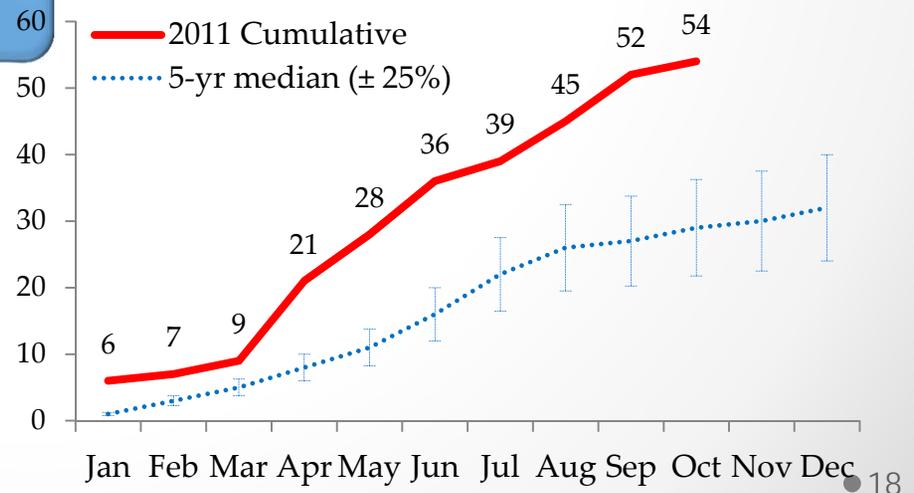
54 rabid animals



Animal rabies is currently +86% increased over the baseline 5-year median



Cases by month, 2011 and 5-year median



Healthcare Associated Infections, South Dakota

- 14 of 17 SD facilities participating in the National Healthcare Safety Network (NHSN) report to the Dept of Health.
- 3 target areas:
 - *Clostridium difficile* infections;
 - Bloodstream MRSA (methicillin-resistant *Staphylococcus aureus*);
 - Central line associated bloodstream infections (CLABSI).
- Reports 1 January – 31 October 2012.
 - *C. difficile*: 8 cases reported (4 hospital onset).
 - MRSA (bloodstream): no cases reported.
 - CLABSI: 8 cases reported.

• Please see www.cdc.gov/nhsn

1 Jan – 31 Oct 2012, Provisional Data

Other diseases, South Dakota, Year-to-date 2012

Disease	Total cases YTD	5-yr median (2007-2011)	Zip code region							
			570xx	571xx	572xx	573xx	574xx	575xx	576xx	577xx
Chicken pox	29	39	5	2	2	8	2	2	0	8
Dengue fever	1	0	0	0	0	0	1	0	0	0
Erlichiosis/Anaplasmosis	1	0	0	1	0	0	0	0	0	0
Hantavirus pulm synd	1	0	0	0	0	0	0	0	0	1
Hepatitis A	0	3	0	0	0	0	0	0	0	0
Hepatitis B, chronic	26	-	4	13	1	4	0	0	0	4
Legionnaires' disease	6	2	0	2	0	0	1	0	1	2
Lyme disease	4	1	2	0	1	0	0	0	0	1
Malaria	5	1	1	4	0	0	0	0	0	0
Meningococcal, invasive	0	2	0	0	0	0	0	0	0	0
Q Fever	2	2	0	0	0	0	0	2	0	0
Rocky Mt Spotted Fever	1	2	1	0	0	0	0	0	0	0
Shigella	11	7	0	3	3	1	2	0	0	2
Strep pneumo, invasive	68	-	12	19	11	6	2	2	4	12
Tularemia	5	8	0	0	0	2	0	1	0	2

South Dakota, diseases past 10 years, 2002 - 2011

Reportable Diseases	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Median
Campylobacteriosis	198	188	273	244	219	235	262	298	296	301	253
Chlamydia	2215	2606	2534	2701	2633	2612	2919	3016	3191	3409	2667
Cryptosporidiosis	42	49	44	31	86	169	88	138	108	146	87
<i>E. coli</i> , shiga toxin-producing	41	29	33	29	50	47	53	71	35	41	41
Giardiasis	83	89	87	118	97	104	136	112	102	110	103
Gonorrhea	263	226	304	351	367	254	382	345	468	602	348
Hantavirus pulmno syndro	0	1	1	2	2	1	0	0	0	1	1
Hepatitis A	3	0	4	1	9	7	3	3	1	2	3
HIV and AIDS	19	25	19	33	34	25	34	21	35	21	25
Legionellosis	4	2	5	21	5	4	3	2	9	2	4
Meningococcal disease	2	1	4	4	4	3	3	5	0	3	3
MRSA, invasive	NR	NR	36	47	50	87	76	91	98	91	82
Mumps	0	0	0	0	296	6	1	2	2	0	0.5
Pertussis	8	7	169	183	26	61	68	58	32	37	48
Q Fever	1	0	0	2	2	1	1	9	4	1	1
Rabies, animal	96	132	94	68	38	27	24	53	32	40	46
Salmonellosis	121	131	156	160	135	172	152	198	186	162	158
Shigellosis	157	17	13	131	389	122	76	4	7	6	46
Tuberculosis	13	20	11	16	14	13	16	18	15	15	15
Tularemia	3	5	4	8	5	7	10	5	11	8	6
West Nile neuroinvasive	14	170	6	35	38	48	11	6	4	0	12
West Nile fever	23	869	45	194	75	160	28	15	16	2	36

Reportable Diseases List <http://doh.sd.gov/Disease/Report.aspx>
Monthly surveillance reports <http://doh.sd.gov/ID/site.aspx>

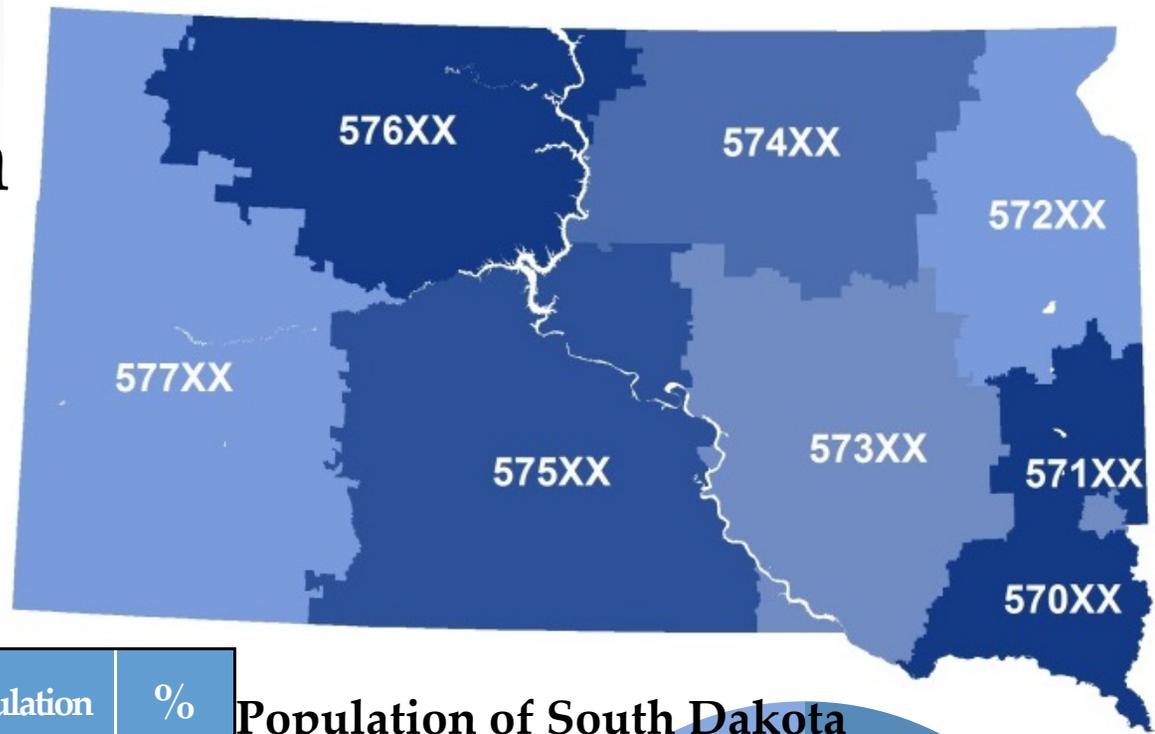
How to report infectious diseases

1. Secure disease reporting website: www.state.sd.us/doh/diseasereport
2. Telephone: 1-800-592-1804 confidential recorder; or 1-800-592-1861 or 605-773-3737 for a disease surveillance person during normal business hours; after hours to report Category I diseases or other emergencies, call 605-280-4810.
3. Fax: 605-773-5509
4. Mail or courier, address to: Infectious Disease Surveillance, Office of Disease Prevention, Department of Health, 615 East 4th Street, Pierre, SD 57501; marked "*Confidential Disease Report*"

Department of Health publications

- Infectious disease report: <http://doh.sd.gov/ID/site.aspx>
- Public Health Bulletin: <http://doh.sd.gov/Bulletin/default.aspx>
- Natality birth report: <http://doh.sd.gov/Statistics/2009Vital/Natality.pdf>
- Infant mortality report: <http://doh.sd.gov/Statistics/2009Vital/InfantMortality.pdf>
- Mortality report: <http://doh.sd.gov/Statistics/2009Vital/Mortality.pdf>
- Adult Risk Behaviors: <http://doh.sd.gov/Statistics/2009BRFSS/default.aspx>
- Youth Risk Behaviors (Dept of Education): <http://doe.sd.gov/schoolhealth/yrbs.asp>

South Dakota Zip Code Regions



Zip Code Region	Hub city	Population	%
570xx	Sioux Falls	173,060	21%
571xx	Sioux Falls core	161,141	20%
572xx	Watertown	72,216	9%
573xx	Mitchell	81,395	10%
574xx	Aberdeen	59,600	7%
575xx	Pierre	53,255	6%
576xx	Mobridge	20,898	3%
577xx	Rapid City	191,782	24%
Total	South Dakota	814,181	100%

Population of South Dakota
Zip Code Regions

